

Landowner 101: Promoting Wildlife Around You

Joseph Roy-Private Lands Wildlife Biologist



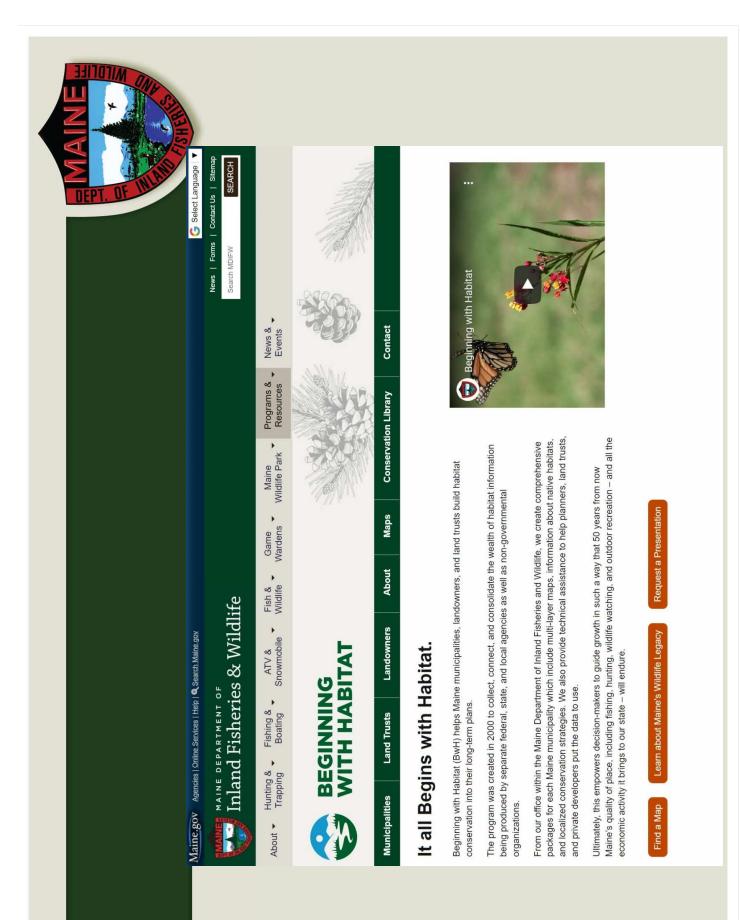
Joseph Roy Maine Dept. of Inland Fisheries and Wildlife 284 State Street 41 State House Station Augusta, ME 04333 207–592–3344 joseph.roy@maine.gov www.beginningwithhabitat.gov



The Maine Department of Inland Fisheries and Wildlife (MDIFW)



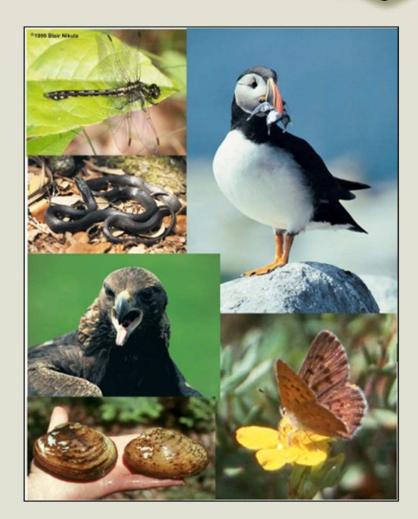
Conserve, protect and enhance <u>fish and</u> <u>wildlife</u> resources





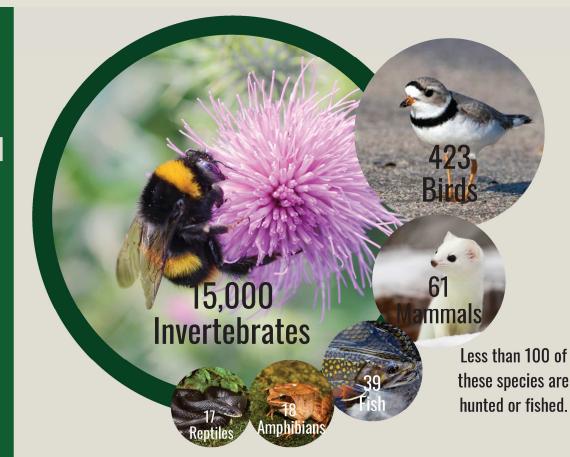
What is wildlife?

- The non-domesticated animal species that occur on the landscape
- Mammals
- Reptiles/Amphibians
- Birds
- Insects

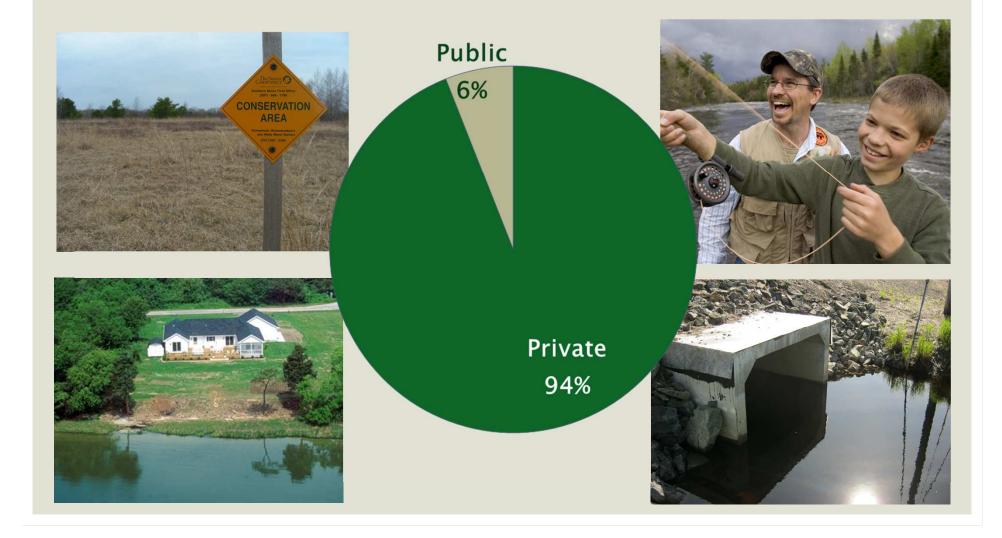


How Many 'Inland' Fish and Wildlife Species are in Maine?





Wildlife Belongs to Everyone



What is Habitat?

• An area that provides an organisms with all the necessary requirements to survive











4 principals of habitat

- Space
- Food
- Cover/shelter
- Water



Space





What can you do?

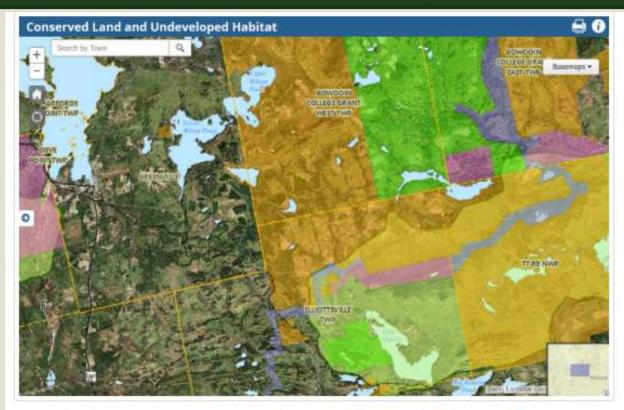
- Determine the amount of space you have
- Consider partnering with neighbors
- Determine the special needs of the species you desire
- Determine what species home range fits within your manageable space
- Utilize beginning with habitat tools to view maps





Beginning with habitat undeveloped habitat maps





Map 3- Conserved Land and Undeveloped Habitat

Beginning with Habitat Map 3 depicts the State of Maine's conserved lands database including lands in federal, state, and nonprofit ownership.



Habitat Block Size Requirements for Wildlife in Maine: UNDEVELOPED

RACCOON HARE COYOTE SMALL RODENT PORCUPINE BOBCAT **COTTONTAIL** BEAVER **BLACK BEAR** SQUIRREL **WEASEL** MINK **FISHER**

WOODCHUCK DEER **MUSKRAT** MOOSE **RED FOX** SONGBIRDS SHARP-SHINNED HAWK **BALD EAGLE** SKUNK **COOPER'S HAWK** HARRIER **BROAD-WINGED HAWK GOSHAWK**

KESTREL RED-TAIL HAWK HORNED OWL RAVFN BARRED OWL OSPREY TURKEY VULTURE TURKEY MOST REPTILES **GARTER SNAKE BING-NECK SNAKE MOST AMPHIBIANS WOOD FROG**

Habitat Block Size Requirements for Wildlife in Maine: 100 –499 ACRES

RACCOON HARE

SMALL RODENT

COTTONTAIL BEAVER

SQUIRREL WEASEL MINK WOODCHUCK DEER MUSKRAT

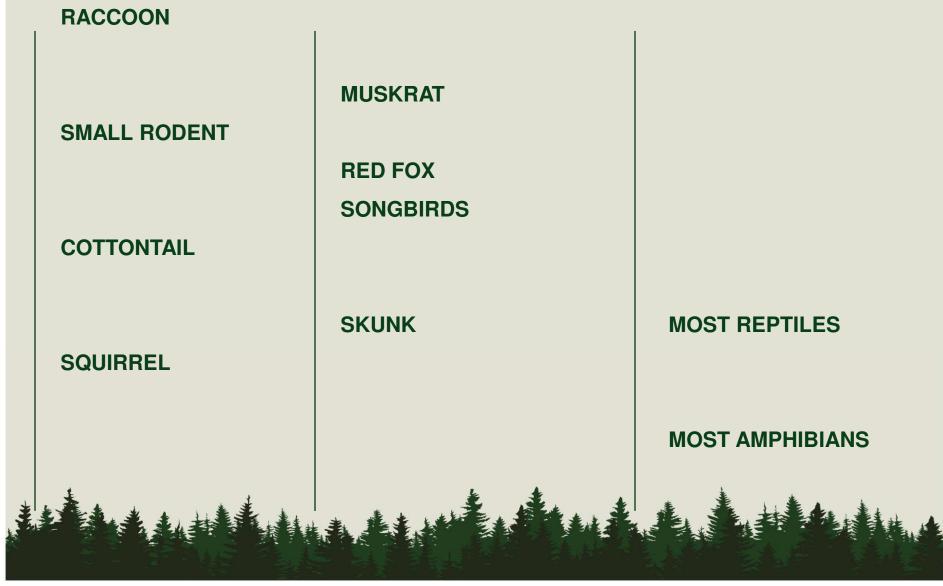
RED FOX SONGBIRDS SHARP-SHINNED HAWK

SKUNK COOPER'S HAWK HARRIER BROAD-WINGED HAWK KESTREL

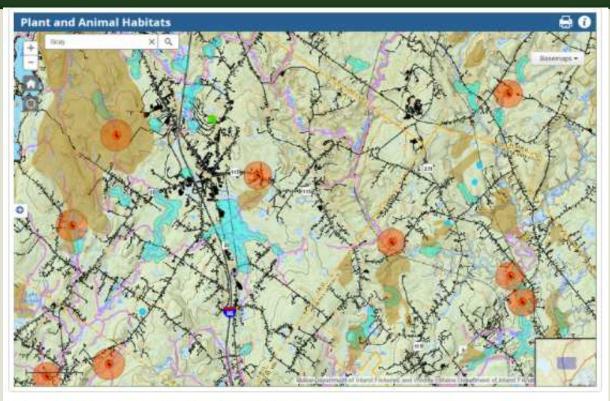
HORNED OWL

BARRED OWL OSPREY TURKEY VULTURE TURKEY MOST REPTILES GARTER SNAKE RING-NECK SNAKE MOST AMPHIBIANS WOOD FROG

Habitat Block Size Requirements for Wildlife in Maine: 1–19 ACRES



Use Beginning with Habitat Maps



Map 2- Plant and Animal Habitats

Beginning with Habitat Map 2 depicts known rare, threatened, or endangered plant and animal occurrences, as well as "Significant Wildlife Habitat," "Essential Wildlife Habitat," and other important wildlife habitats.

Open Viewer



What can you do?

- Understand the size of your parcel
- Work to keep the parcel intact to provide larger areas for habitat
- Work with your neighbors

Food





Types of Food -Mast

Hard Mast

- Acorns
- Beechnuts
- Beaked hazelnuts
- Seeds



Soft mast

- Apples
- Raspberries
- Blueberries
- Strawberries
- Winterberries
- Viburnum berries





Types of Food – Herbaceous browse

- Grasses
- Sedges
- Rushes
- Agricultural crops



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Types of Food–Pollen Sources

- Wildflowers
 - Goldenrods
 - Asters
- Annuals
- Perennials
- Clover



Types of Food- Other

- Insects
- Small mammals
- Aquatic foods
 - Amphibian eggs
 - Tadpoles
 - Fish
 - Mussels/clams
 - Wetland plants





Bird feeders





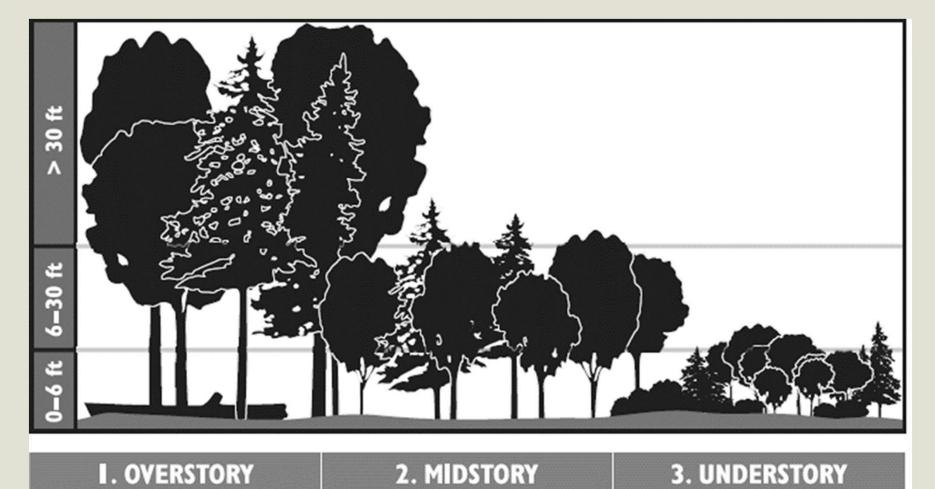


What can you do?

- Maintain current food sources
- Promote the natural production of hard and soft mast
- Maintain open space and herbaceous areas
- Promote wildflowers and pollinator gardens
- Plant natural food sources

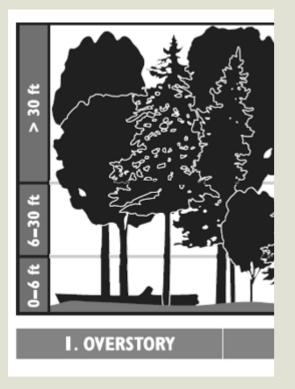
Cover





Overstory

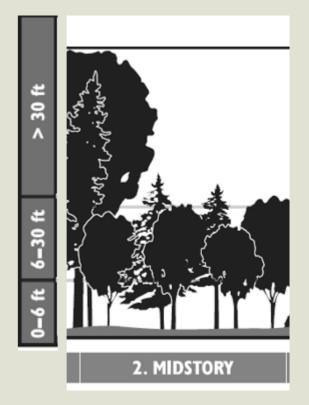
- Forest canopy, 30+ feet tall
- Provides perching opportunities
- Provided nesting opportunities
- Hard mast (such as acorns and beechnuts) is produced in the overstory
- Maintaining an overstory is important for wildlife and for providing "seed trees" for the future
- Standing dead trees provide cover, food, and nesting locations



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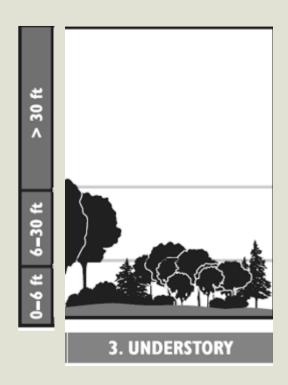
Mid story

- 6-30 feet tall
- Provides nesting opportunity for a variety of species
- Contributes to the production of hard mast, soft mast, and other forage opportunities
- Provides trees for the next generation of overstory trees
- Standing dead trees provide cover, food, and nesting locations



Understory

- 0-6 feet tall
- Consists of shrubs and small trees and saplings
- Provides nesting habitat for a variety of species
- Downed wood (also known as coarse woody material) provides perching, hiding, and drumming locations for birds
- Provides cover for small mammals and amphibians
- Brush piles, natural and artificial, provide cover habitat for insects and cover for birds and small mammals
- Leaf litter and forest debris provide cover and forage opportunities for small mammals and amphibians





Brush piles and woody debris





Standing dead trees



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What can you do?

- Maintain diverse age structure
- Retain standing dead trees
- Retain forest debris like twigs, sticks and leaf litter
 - delay lawn maintenance
- Create brush piles
- Delay mowing
- Provide bird, bat, and pollinator boxes to increase nesting and roosting opportunities

Water



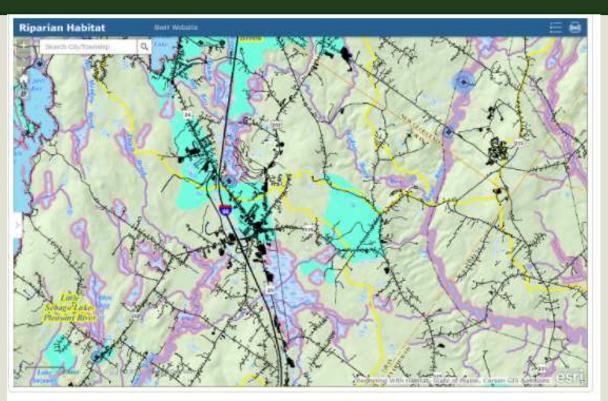


Water sources

- Lakes & Ponds
- Rivers & Streams
- Bays & Oceans
- Costal Wetlands & Saltmarshes
- Freshwater wetlands
- Vernal pools



Riparian Habitat



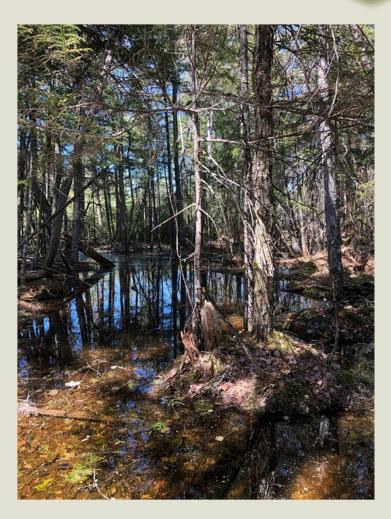
Map 1- Riparian Habitats

Beginning with Habitat Map 1 depicts major surface water features and drainage areas, associated shoreline habitats and riparian zones, and aquifers and wells that supply public drinking water.

Open Viewer

Vernal pools

- Temporary hydroperiod
- Small
- Forested
- Fishless
- Provide breeding habitat



Vernal pools





Vernal pools





What can you do?

- Determine what water resources you have on site
- Make sure that anthropogenic sources aren't blocking or filling your water sources
 - Undersized culverts
 - Perched culverts
 - Clogged culverts
 - Erosion
 - Garbage/debris
- Maintain a healthy vegetated buffer around your water sources

Invasive species







What can you do?

- Learn about the different invasive species
- Survey your property for invasive species
- Review guidance resources
- Contact your soil and water conservation district
 - They may have resources available
- Develop an invasive species management plan
- Remove invasive species

Make it sustainable



 Explore conservation options with your local land trust



Questions?

